

DERWENT-ACC-NO: 1997-373195

DERWENT-WEEK: 200331

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TITLE: Electron emitter for image-forming
device - prepared by applying organic coating to
electroconductive film with
fissure and carbonising coating

INVENTOR: YAMANOBE, M

PATENT-ASSIGNEE: CANON KK[CANO] , YAMANOBE M[YAMAI]

PRIORITY-DATA: 1996JP-0334124 (December 13, 1996) ,
1995JP-0342153 (December
28, 1995)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
US 6554946 B1		April 29, 2003	N/A
000	B29C	065/00	
AU 9676436 A		July 3, 1997	N/A
115	H01J	001/30	
EP 788130 A2		August 6, 1997	E
000	H01J	009/02	
CA 2194044 A		June 29, 1997	N/A
000	H01J	009/02	
JP 09237571 A		September 9, 1997	N/A
028	H01J	009/02	
KR 97050003 A		July 29, 1997	N/A
000	G09F	009/00	
AU 719571 B		May 11, 2000	N/A
000	H01J	001/30	
KR 214393 B1		August 2, 1999	N/A
000	H01J	009/02	
US 6221426 B1		April 24, 2001	N/A
000	B05D	005/12	
CN 1176478 A		March 18, 1998	N/A
000	H01J	009/02	
CA 2194044 C		January 15, 2002	E
000	H01J	009/02	
JP 2002313222 A		October 25, 2002	N/A

023	H01J 009/02	
US 20030066599 A1	April 10, 2003	N/A
000	B32B 031/00	

DESIGNATED-STATES: DE FR GB IT NL

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
US 6554946B1	Div ex	
1996US-0774009	December 26, 1996	
US 6554946B1	N/A	
2000US-0651565	August 29, 2000	
US 6554946B1	Div ex	US 6221426
N/A		
AU 9676436A	N/A	
1996AU-0076436	December 23, 1996	
EP 788130A2	N/A	
1996EP-0309547	December 24, 1996	
CA 2194044A	N/A	
1996CA-2194044	December 27, 1996	
JP 09237571A	N/A	
1996JP-0334124	December 13, 1996	
KR 97050003A	N/A	
1996KR-0075223	December 28, 1996	
AU 719571B	N/A	
1996AU-0076436	December 23, 1996	
AU 719571B	Previous Publ.	AU 9676436
N/A		
KR 214393B1	N/A	
1996KR-0075223	December 28, 1996	
US 6221426B1	N/A	
1996US-0774009	December 26, 1996	
CN 1176478A	N/A	
1996CN-0123887	December 27, 1996	
CA 2194044C	N/A	
1996CA-2194044	December 27, 1996	
JP2002313222A	Div ex	
1996JP-0334124	December 13, 1996	
JP2002313222A	N/A	
2002JP-0056016	December 13, 1996	
US20030066599A1	Div ex	
1996US-0774009	December 26, 1996	
US20030066599A1	Div ex	
2000US-0651565	August 29, 2000	
US20030066599A1	N/A	
2002US-0299659	November 20, 2002	

US20030066599A1
N/A

Div ex

US 6221426

INT-CL (IPC): B05D005/12, B29C065/00 , B32B031/00 ,
G09F009/00 ,
H01J001/30 , H01J003/02 , H01J009/00 , H01J009/02 ,
H01J019/24 ,
H01J031/10 , H01J031/12

ABSTRACTED-PUB-NO: AU 9676436A

BASIC-ABSTRACT:

An electron-emitting device includes an electroconductive film providing an emitter region and a pair of electrodes for applying a voltage to the film. The region is prepared by coating the film with an organic material, forming one or more fissures in the film either before or after coating, and then carbonising the coating at least by electrically energising the film. An image-forming device comprises an envelope within which is an electron source having multiple emitting devices prepared as above, and an image-forming member creating an image when irradiated by the electrons.

ADVANTAGE - Devices are obtained having large number of emitters giving very uniform level of electron emission with stable operation. Complex process controls not needed, nor is very high temperature processing. High yield.

ABSTRACTED-PUB-NO: US 6221426B

EQUIVALENT-ABSTRACTS:

An electron-emitting device includes an electroconductive film providing an emitter region and a pair of electrodes for applying a voltage to the film. The region is prepared by coating the film with an organic material, forming one or more fissures in the film either before or after

coating, and then
carbonising the coating at least by electrically energising
the film. An
image-forming device comprises an envelope within which is
an electron source
having multiple emitting devices prepared as above, and an
image-forming member
creating an image when irradiated by the electrons.

ADVANTAGE - Devices are obtained having large number of
emitters giving very
uniform level of electron emission with stable operation.
Complex process
controls not needed, nor is very high temperature
processing. High yield.

CHOSEN-DRAWING: Dwg.1A/20

TITLE-TERMS: ELECTRON EMITTER IMAGE FORMING DEVICE
PREPARATION APPLY ORGANIC
COATING ELECTROCONDUCTING FILM FISSURE
CARBONISE COATING

DERWENT-CLASS: A35 A85 G06 L03 P42 P73 P85

CPI-CODES: A10-E05; A12-E; A12-L02A; G06-D03; G06-G18;
L03-C02;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1779U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; H0011*R ; H0328 ; L9999 L2391 ; L9999 L2108 L2095
; M9999

M2108 M2095

Polymer Index [1.2]

018 ; P0577 D01 ; L9999 L2391 ; L9999 L2108 L2095 ;
M9999 M2108

M2095 ; H0328

Polymer Index [1.3]

018 ; P0226 P0282*R D01 D18 F30 ; L9999 L2391 ; L9999
L2108 L2095

; M9999 M2108 M2095 ; H0328

Polymer Index [1.4]

018 ; R00817 G0475 G0260 G0022 D01 D12 D10 D26 D51 D53
D58 D83 F12
; H0000 ; L9999 L2391 ; L9999 L2108 L2095 ; M9999 M2108
M2095 ;

P0088 ; P0102
 Polymer Index [1.5]
 018 ; R24076 R24077 R01852 G3634 G3623 D01 D03 D11 D10
 D23 D22 D31
 D42 D50 D76 D86 F24 F29 F26 F34 H0293 P0599 ; H0328 ;
 L9999 L2391
 ; L9999 L2108 L2095 ; M9999 M2108 M2095
 Polymer Index [1.6]
 018 ; ND01 ; ND07 ; N9999 N7147 N7034 N7023 ; Q9999
 Q7114*R ; N9999
 N6177*R ; Q9999 Q7512 ; K9552 K9483 ; K9585 K9483 ;
 K9610 K9483
 ; K9529 K9483
 Polymer Index [2.1]
 018 ; R00800 G0384 G0339 G0260 G0022 D01 D11 D10 D12
 D23 D22 D26
 D31 D42 D51 D53 D58 D63 D73 D87 F47 F41 F89 ; R01126
 G0340 G0339
 G0260 G0022 D01 D11 D10 D12 D26 D51 D53 D58 D63 D85 F41
 F89 ; H0022
 H0011 ; P0464*R D01 D22 D42 F47 ; L9999 L2391 ; L9999
 L2108 L2095
 ; M9999 M2108 M2095 ; P0088
 Polymer Index [2.2]
 018 ; R00806 G0828 G0817 D01 D02 D12 D10 D51 D54 D56
 D58 D84 ; H0000
 ; M9999 M2175 ; P0464*R D01 D22 D42 F47 ; L9999 L2391 ;
 L9999 L2108
 L2095 ; M9999 M2108 M2095 ; P0328 ; P0339
 Polymer Index [2.3]
 018 ; G1467 G1456 G1445 G4024 D01 D63 F41 F90 E00 D18*R
 D19 D18
 D33 D76 D50 E19 ; H0011*R ; H0293 ; M9999 M2073 ; L9999
 L2391 ;
 L9999 L2108 L2095 ; M9999 M2108 M2095
 Polymer Index [2.4]
 018 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31
 D51 D53 D58
 D76 D88 ; R00799 G0340 G0339 G0260 G0022 D01 D11 D10
 D12 D23 D22
 D26 D31 D42 D51 D53 D58 D63 D73 D86 F47 F41 F89 ; H0022
 H0011 ;
 M9999 M2073 ; L9999 L2391 ; L9999 L2108 L2095 ; M9999
 M2108 M2095
 ; P0464*R D01 D22 D42 F47 ; P1741 ; P0088
 Polymer Index [2.5]
 018 ; P1081*R F72 D01 ; H0293 ; M9999 M2073 ; M9999
 M2108 M2095

; L9999 L2391 ; L9999 L2108 L2095
 Polymer Index [2.6]
 018 ; R00800 G0384 G0339 G0260 G0022 D01 D11 D10 D12
 D23 D22 D26
 D31 D42 D51 D53 D58 D63 D73 D87 F47 F41 F89 ; H0000 ;
 M9999 M2073
 ; L9999 L2391 ; L9999 L2108 L2095 ; M9999 M2108 M2095 ;
 P0088
 Polymer Index [2.7]
 018 ; ND01 ; ND07 ; N9999 N7147 N7034 N7023 ; Q9999
 Q7114*R ; N9999
 N6177*R ; Q9999 Q7512 ; K9552 K9483 ; K9585 K9483 ;
 K9610 K9483
 ; K9529 K9483
 Polymer Index [2.8]
 018 ; B9999 B4988*R B4977 B4740 ; K9814 K9803 K9790 ;
 Q9999 Q8684
 Q8673 Q8606

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers:

C1997-120302